

UC^{FIBRE} I DI LSHF-FR ES9 2 - 24 fibres

On board distribution cable with ES9 tight buffer and FireRes[®] sheath, J-V(ZN)H



Application and Installation

This distribution or mini-break-out cable can be used for many on-board communication applications. The cable features Draka's ES9 tight buffer. Typical cable applications include: LAN and WAN backbones, central office interconnections, backbones in data centres, and many other. The cable features aramid yarns for ease of installation. It is suited for installation in ducts and on trays. The cable features an UV stabilised, water and moisture resistant FireRes[®] sheathing, the cable is thus well suited for shorter outdoor runs.

Standards

ISO 11801 2nd edition, EN 187 000, IEC 60794-2, EN 50 173-1, IEC 60794-2-20

Flame resistance

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034

Construction

Fibre	2 - 24 tightly buffered fibres 900 µm ± 50 µm.		
Fibre colour code	1	Red	13 Yellow w/mark every 70 mm
	2	Green	14 White w/mark every 70 mm
	3	Blue	15 Grey w/mark every 70 mm
	4	Yellow	16 Turquoise w/mark every 70 mm
	5	White	17 Orange w/mark every 70 mm
	6	Grey	18 Pink w/mark every 70 mm
	7	Brown	19 Yellow w/mark every 35 mm
	8	Violet	20 White w/mark every 35 mm
	9	Turquoise	21 Grey w/mark every 35 mm
	10	Black	22 Turquoise w/mark every 35 mm
	11	Orange	23 Orange w/mark every 35 mm
	12	Pink	24 Pink w/mark every 35 mm
Strength member	Ultra high modulus aramid yarns		
Sheath colours	Cable with SM fibres		Yellow, RAL 1021
	Cable with MaxCap-BB-OM2		Orange, RAL 7037
	Cable with OM1 fibres		Grey, RAL 2003
	Cable with MaxCap-BB-OM3 and MaxCap-BB-OM4		Aqua, RAL 6027
Sheath	Halogen free, flame resistant thermoplastic sheathing compound acc. to (SHF1) according IEC 60092-360, UV stabilised		
Sheath marking	Draka UC ^{FIBRE} I DI N LSHF-FR ES9 <fibre count> <Fibre type><Fibre brand><Item No>05<Batch Number><Meter mark> J-V(ZN)H <fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>		

Physical properties

IEC 60974-1-2

Attribute	Method	Limits							
		2	4	6	8	12	16	24	
Fibre count		2	4	6	8	12	16	24	
Nominal diameter [mm]	-	4.5	5	5.5	6	6.5	7	8	
Nominal weight [kg/km]	-	21	26	30	35	45	50	65	
Maximum installation load (a few hours) [N]	-	1000	1000	1000	1000	1200	1200	1500	
Short term tensile strength (some days) [N]	E1	560	560	560	560	680	680	800	
Permanent tensile strength [N]	E1	280	280	280	280	340	340	400	
Impact [J]	E4	20 J							
Crush (compressive strength)	E3	3000 N/ 100 mm							
Torsion	E7	5 cycles ± 1 turn							
Minimum bending radius	E11	50	50	50	50	75	75	115	
Minimum bending radius under tension	E18A	100	100	100	100	130	130	230	
Temperature range	F1	Operation and Installation				-20 °C to 70 °C			
		Storage				-40 °C to 70 °C			
Minimum bending radius of the 900 µm buffered fibres	G01	With standard fibres			20 mm				
		With MaxCap-BB-OMx fibres			7.5 mm				
		With BendBright-XS fibers:			7.5 mm				
Heat of combustion [MJ/km] – [kW/m]		370	475	575	660	900	1000	1400	
		0.10	0.13	0.16	0.18	0.25	0.28	0.39	

Product codes – ordering information

Prysmian group material code	Prysmian Group material description	Draka Material code	Fibre count	Fibre type	Fibre data sheet
	UC ^{FIBRE} I DI LSHF-FR ES9 2 OM2B	1020481	2	MaxCap-BB-OM2 50/125	C34
60011370	UC ^{FIBRE} I DI LSHF-FR ES9 4 OM2B	1018952	4	MaxCap-BB-OM2 50/125	C34
60041217	UC ^{FIBRE} I DI LSHF-FR ES9 6 OM2B	1020001	6	MaxCap-BB-OM2 50/125	C34
	UC ^{FIBRE} I DI LSHF-FR ES9 8 OM2B	1020002	8	MaxCap-BB-OM2 50/125	C34
	UC ^{FIBRE} I DI LSHF-FR ES9 12 OM2B	1019028	12	MaxCap-BB-OM2 50/125	C34
	UC ^{FIBRE} I DI LSHF-FR ES9 24 OM2B	1020003	24	MaxCap-BB-OM2 50/125	C34
60019145	UC ^{FIBRE} I DI LSHF-FR ES9 4 OM3B	1020008	4	MaxCap-BB-OM3	C31
60019146	UC ^{FIBRE} I DI LSHF-FR ES9 12 OM3B	1020009	12	MaxCap-BB-OM3	C31
60026046	UC ^{FIBRE} I DI LSHF-FR ES9 4 MM61	1020004	4	OM1 62.5/125 multi mode	C02
	UC ^{FIBRE} I DI LSHF-FR ES9 6 MM61	1020005	6	OM1 62.5/125 multi mode	C02
	UC ^{FIBRE} I DI LSHF-FR ES9 8 MM61	1020006	8	OM2 62.5/125 multi mode	C02
	UC ^{FIBRE} I DI LSHF-FR ES9 12 MM61	1020007	12	OM1 62.5/125 multi mode	C02
60019147	UC ^{FIBRE} I DI LSHF-FR ES9 4 SM2D	1020010	4	OS2 single mode	C03e
60019148	UC ^{FIBRE} I DI LSHF-FR ES9 6 SM2D	1020011	6	OS2 single mode	C03e
60019149	UC ^{FIBRE} I DI LSHF-FR ES9 8 SM2D	1020012	8	OS2 single mode	C03e
60019150	UC ^{FIBRE} I DI LSHF-FR ES9 12 SM2D	1020013	12	OS2 single mode	C03e
60019151	UC ^{FIBRE} I DI LSHF-FR ES9 24 SM2D	1020014	24	OS2 single mode	C03e
60018920	UC ^{FIBRE} I D LSHF-FR ES9 12 SM7B	1018987	12	BendBright®XS G.657.A2	C24